The Nation's First White Spaces Deployments

New Hanover County, NC

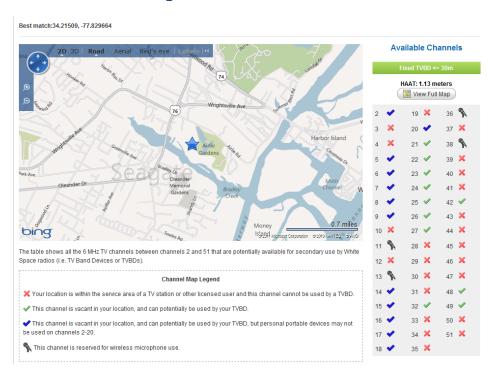


What are the white spaces?

- Unused channels in the traditional TV bands –
 UHF and VHF
- Transition to digital television provided additional space
- Available white spaces are different in each geographical area



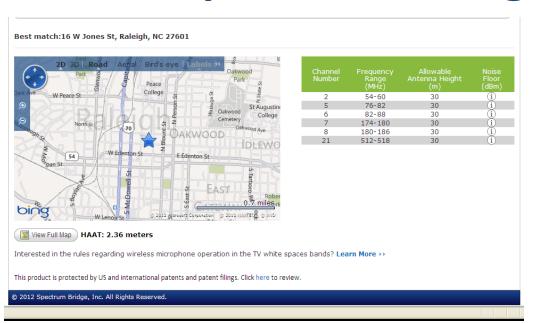
White Spaces in Wilmington



- Not many broadcast channels
- Each check mark is an available 6 MHz channel



White Spaces in Raleigh



- More licensed broadcasters in this market
- Fewer channels available for white spaces

What's so great about it?

- Lower frequencies than traditional Wi-Fi goes through things like trees and walls
- Travels longer distances
- Abundant in rural areas

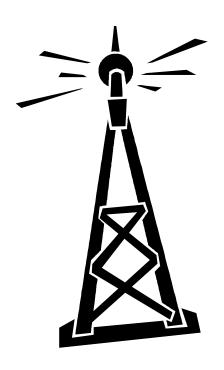
NHC's Installations

- Airlie Gardens cameras observation and surveillance – public wireless (future)
- Hugh MacRae Park Public wireless and video surveillance
- Veterans' Park Video surveillance Public wireless

Costs

- Technology is still in its infancy so equipment is specialty gear – no mass production
- Costs will come down as standards are set and demand increases
- NHC is renting the infrastructure as a service from TV Band Services

Future Applications



- Water quality monitoring
- Remote lighting control
- Replacement for highcost, low-speed links
- Mobile command post
- Fire ground data connection

QUESTIONS?

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